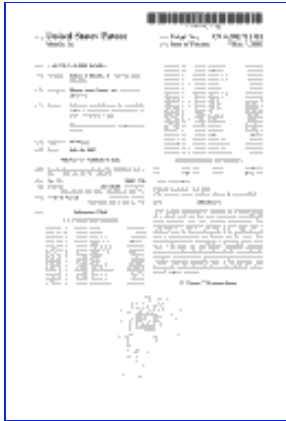


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Cab enclosure panels

 Robert P. Martin et al[Read this patent](#)[Download PDF](#)[View patent at USPTO](#)

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Abstract

A set of panel assemblies for enclosing the overhead guard of a vehicle such as a skid steer comprising a windshield/door assembly and side window assemblies. The windshield/door assembly includes a door jamb that is clamped over the front corner posts of the overhead guard and a windshield/door unit hinged on the jamb. The windshield/door unit seals against a generally planar front face of the jamb. The side window assemblies comprise transparent rigid plastic sheets adapted to be attached to the side grille of the overhead guard in a simplified manner and without occupying excessive space in the clearance area between the overhead guard and operating elements such as the lift arms of a bucket.

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Application

number: [9/789,233](#)

U.S. Classification

29619008; 29619003;

29619001; [296/190.1](#);29619011; [296/771](#)

International Classification

B60J 700

Claims

What is claimed is:

1. A kit for enclosing an overhead guard of a vehicle such as a skid steer comprising a door/windshield unit and side window assemblies, the door/windshield unit comprising a door jamb and a door assembly and adapted to overlie both the front corner posts of the overhead guard, the jamb providing hinge members adjacent one corner post and providing a face across the top and two sides of a door opening, the door assembly hinged on said hinge members and capable of sealing against said face when closed, the side window assemblies comprising transparent rigid plastic sheets and peripheral weatherstripping having a narrow edge profile whereby they can be attached on a side grille of the overhead guard without encroaching on significant space adjacent the side grille, and hardware for attaching the window assemblies on the side grilles.
2. A kit as set forth in claim 1, wherein the door jamb has a generally rectangular frame having as elements a generally horizontal header, generally vertical sides and a generally horizontal threshold, the jamb elements having surfaces that form a generally planar face, the side elements having rearwardly directed flanges that are adapted to interact with the corner posts of the vehicle's overhead guard to laterally locate the door jamb on the overhead guard, the threshold having a flange adapted to rest on a portion of the chassis of the vehicle to support the weight of the door jamb and the door assembly, said hinge members being on one of the side elements for pivotally supporting the door assembly about a generally upright axis, the door assembly having a hinged side associated with said hinge members and a latch on a side opposite its hinged side, the door assembly having a closed position where it seals against the planar face of the door jamb, the door assembly including a relatively large windshield that extends over a majority of a frontal area presented by the jamb and door assembly.
3. A kit as set forth in claim 2, wherein said flanges of said side elements are located at the laterally outward extremities of the side elements whereby they are adapted to envelope the outside surfaces of the corner posts.
4. A kit as set forth in claim 2, including clamp elements on said door jamb that capture the front corner posts between themselves and the door jamb to prevent relative forward and rearward movement between the

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Citations

Patent Number	Title	Issue date
1650757	KRAUS	Nov 1927
D162116	TRACTOR CAB OR THE LIKE	Feb 1951
3670798	VEHICLE SCREEN	Jun 1972
4055262	Loader main frame for skid steer loader	Oct 25, 1977
4082343	Resiliently mounted cab-sidewall retainer	Apr 4, 1978
4150474	Method of manufacturing an overhead guard for a skid steer loader	Apr 24, 1979
4184712	Enclosure mechanism for roll over protective structure	Jan 22, 1980
4260320	Safety device for a front end type loader vehicle	Apr 7, 1981
4392669	Cab for lift truck with swing out windshield	Jul 12, 1983
4408672	Latch mechanism for a skid-steer loader with a roll over protective structure having a tilt-back capability	Oct 11, 1983
4652037	Protective cover for a fork lift truck	Mar 24, 1987
4688846	Fabric cab	Aug 25, 1987
4772065	Tractor cabin and manufacturing method therefor	Sep 20, 1988

jamb and the overhead guard.

5. A kit as set forth in claim 4 wherein said clamp elements are removably retained by bolts carried by said door jamb.

6. A kit for enclosing an overhead guard of a vehicle comprising a door/windshield unit and side window assemblies, the door/windshield unit including a front corner post engaging member, a door, and hinge elements on both the post engaging member and the door for pivotally supporting the door on the post engaging member, the door having a windshield that comprises a major portion of the frontal area of the door, the door/windshield unit being arranged to close the boundary between the front corner posts of the overhead guard when in a closed position and allowing access and egress of an operator between the front corner posts when in an open position, said side window assemblies having transparent sheets generally configured as a polygon with a perimeter, a compressible weather strip having a sealing surface attached to the perimeter of the sheet such that its sealing surface is at a plane spaced from the plane of the sheet, and a plurality of fastening elements spaced inwardly from the perimeter of the sheet such that the fastening elements can engage a grille of an overhead guard in a zone surrounded by said perimeter.

7. A kit as set forth in claim 6, wherein said fastening elements include gripping tabs to engage surfaces of the grille on a side of the grille opposite the side at which a window assembly is located.

8. A kit as set forth in claim 6, wherein said fastening elements are block-like structures adapted to pass through a grille opening and releasably lock onto the grille when rotated through a limited angle when in said opening.

9. A kit as set forth in claim 8, wherein said fastening element blocks are arranged to compress said weatherstripping when the window assembly is mounted on the side of an overhead guard.

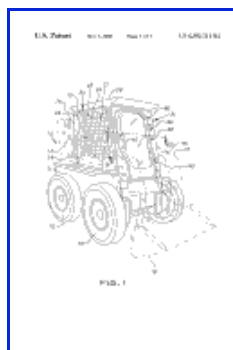
10. A kit as set forth in claim 6, wherein said side panel assemblies are disposed on the inside faces of said guard sides.

11. A kit as set forth in claim 10, wherein a side panel assembly has an aperture covered by a moveable vent window.

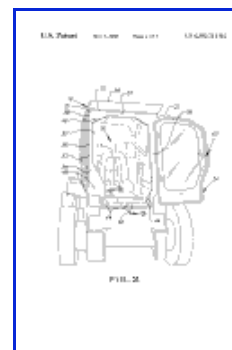
12. A kit as set forth in claim 11, wherein said vent window slides horizontally relative to said side window assembly to open and close said aperture.

4940280	Protection structure for heavy equipment	Jul 10, 1990
4986593	Work cabin having a front windowpane	Jan 22, 1991
5076635	Rear window for a tractor cab	Dec 31, 1991
5076637	Vehicle cab window	Dec 31, 1991
5110174	Portable windshield assembly for a recreational vehicle	May 5, 1992
5203601	Frame and cover for wheeled vehicle	Apr 20, 1993
5273340	Cab assembly	Dec 28, 1993
5286081	Panel cab	Feb 15, 1994
5385379	Split-panel windshield assembly for attachment to a recreation vehicle	Jan 31, 1995
5385380	Split windshield assembly for recreation vehicle	Jan 31, 1995
5413188	Operator cabin of bulldozer	May 9, 1995
5450917	Cab window with access feature for external controls	Sep 19, 1995
5551826	Skid steer loader cab mounting apparatus	Sep 3, 1996
5577795	Operator cab door of construction machine	Nov 26, 1996
RE35757	Split windshield assembly for recreation vehicle	Mar 31, 1998
5954384	Windshield protection guard and combination support surface assembly	Sep 21, 1999

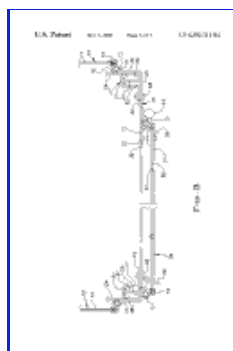
Drawings



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5961175	Vehicle canopy	Oct 5, 1999
6149228	Modular operator enclosure	Nov 21, 2000
6189954	Cab enclosure panels	Feb 20, 2001
6325449	ROPS structure for work vehicle	Dec 4, 2001

Referenced by

Patent Number	Title	Issue date
7252325	Work vehicle cab screen	Aug 7, 2007
D551257	Door for a machine	Sep 18, 2007
D570381	Cabin for working vehicles	Jun 3, 2008

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